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AMENDMENTS TO THE SPECIFICATION

Please replace the second full paragraph under the heading, Brief Description of the Drawings, on page 6 of the specification with the following rewritten paragraph:

Figure 2: The deduced amino acid sequence of *Stokesia laevis* fatty acid epoxygenase (SEQ [[1]]ID No.2) derived from the nucleotide sequence SEQ[[O]] 1D[[0]] No. 1.

Please replace the third full paragraph under the heading, Brief Description of the Drawings, on page 6 of the specification with the following rewritten paragraph:

Figures 3A–3C show[[s]] an alignment of the Stokesia laevis epoxygenase cDNA with Veronia (SEQ ID NO. 9[[11]]) and Crepis epoxygenase cDNA (SEQ ID NO. 10[[12]]).

Please replace the fourth full paragraph under the heading, Brief Description of the Drawings, on page 6 of the specification with the following rewritten paragraph:

Figures 4A–4D : GC-MS analysis of fatty acid derivatives from transgenic Arabidopsis seeds. (A) Chromatograms from transgenic Arabidopsis transformed with pCAMBIA1202 comprising the cDNA from *Stokesia laevis*. (B) Chromatograms from Arabidopsis seeds transformed with empty vector, pCAMBIA 1201 as a control. (C) Mass spectrum of the compound giving rise to peak 5 at 13.94 min. in chromatogram (A), and (D) a standard vernolic acid. M/z, mass-to- charge ratio.

Please replace the sixth full paragraph under the heading, Brief Description of the Drawings, on page 6 of the specification with the following rewritten paragraph:

Figures 5A-5B: show[[s]] (A) elution of Vernolic acid from a column at 13.957 min. and (B) a control.

Please replace the first full paragraph under Example 1 on page 13 of the specification with the following rewritten paragraph:

A partial *Stokesia laevis* epoxygenase cDNA fragment was obtained using a RT-PCR kit (Promega) using RNA from developing seeds as a template. The PCR mixtures contained ~1 g of total RNA template, 0.2 mM dNTPs, 2.5 U of AMV reverse transcriptase, 2.5 U of Tfl polymase and ~1 M each of two degenerate primers described below. Reaction mixtures were incubated in a thermocycler (Perkin Elmer, Model 2400) for 45 minutes at 48 degrees C, followed by 2 minutes at 94 degrees C and 40 cycles of 30 seconds at 94 degrees C, 30 seconds at 500 C and 1 minute at 72 degrees C. The PCR primers used were a[[:]] 5' epoxy ~~(GGUCAYGARTGYGGNCAYCAYGC - SEQ ID No. 3)~~ and 3' epoxy ~~(ACRTGIGTRTGNGTNACRTCRTG - SEQ ID No. 4)~~ which represent two peptides sequences, CHECGHHA - SEQ ID NO.3[[5]] and HDVTHTHV - SEQ ID NO.4[[6]], which peptide sequences are the conserved regions in amino acid sequences of desaturase-like epoxygenases of *Crepis palaestina* and *Vernonia galamensis* and delta 12, extracted from the gel using Gel Extraction kit (Qiagen) and subcloned into the pGEM- T Easy vector (Promega). The DNA inserted had both strands sequenced.

Please replace the second full paragraph under Example 1 on page 13 of the specification with the following rewritten paragraph:

For determination of the full-length cDNA sequence, a RACE (Rapid Amplification of cDNA Ends) strategy was applied. A cDNA was synthesized from poly (A) +RNA of developing seeds of S. la*evis* using a Marathon cDNA Amplification Kit (Clontech). Two primers from the sequence information of the partial cDNA fragment of S. *laevis* epoxygenase were designed; 5' ST(CGCAACCTGGATTCGCTCACGCTCGG - SEQ IDNo.5[[7]]), and 3' ST(CCCAGCTCAGGACTTACTCCACATACG - SEQ ID No.6[[8]]). The 5'-half and 3' -half of the cDNAs were amplified using the PCR conditions

described in the user manual of the kit.

Please replace the first full paragraph under Example 2 on page 14 of the specification with the following rewritten paragraph:

The epoxygenase cDNA of Stokesia was expressed in *Arabidopsis thaliana.* A BsmBI site was introduced at the first ATG and a SmaI site was introduced at the end of the ORF (Qpen reading frame or coding sequence) of the cDNA by PCR mutagenesis. The ORF sequence of the cDNA was amplified using two primers: StexpF (GACGCGTCTTCCCATGTCGGATTCATATGATG - SEQ ID NO. 7[[9]]) and StexpR (GACGCCCGGGTTACATTTTATGGTACCAAT-
ATGTCCC - SEQ ID NO.8[[10]]), BmsBI and SmaI sites are underlined), and cloned into the pGEM- T Easy vector and verified by DNA sequencing. The BsmBI -SmaI fragment covering the entire open reading frame of the cDNA was cut out from pGEM- T Easy vector and ultimately cloned into the respective site of pPHI4752 vector, which contains a phaseolin promoter cassette. The *PstI* fragment including the cDNA with the phaseolin cassette was cut out from the pPHI4752 vector and cloned into the respective multi-cloning site of pcambiaCAMBIA1201, T -DNA vector.

Please insert after page 18, but before the claims, the attached paper Sequence Listing in to the specification.

Attachments: Sequence Listing (paper copy)
Sequence Listing (computer readable disk copy)